

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S4	168	604/167.03.ccls.	USPAT	OR	OFF	2008/09/04 16:38
S3	122	604/167.02.ccls.	USPAT	OR	OFF	2008/09/04 16:38
S2	127	604/167.01.ccls.	USPAT	OR	OFF	2008/09/04 16:38
S1	557	604/167.0?.ccls.	USPAT	OR	OFF	2008/09/04 16:38
S6	0	604/167.?.ccls.	USPAT	OR	OFF	2008/09/04 16:39
S8	29	604/167.05.ccls.	USPAT	OR	OFF	2008/09/04 16:50
S9	118	604/167.04.ccls.	USPAT	OR	OFF	2008/09/04 16:54
S12	0	S1 and (seal same guide same (post or rod or protrusion) same rotate)	USPAT	OR	OFF	2008/09/04 17:02
S11	0	laproscopic and (seal same guide same (post or rod or protrusion) same rotate)	USPAT	OR	OFF	2008/09/04 17:02
S10	0	laproscopic and (seal same spiral same guide same (post or rod or protrusion) same rotate)	USPAT	OR	OFF	2008/09/04 17:02
S14	16	S13 and guide	US-PGPUB; USPAT	OR	OFF	2008/09/04 17:03
S13	40	S1 and (seal same rotate)	US-PGPUB; USPAT	OR	OFF	2008/09/04 17:03
S18	6	seal same guide same (post or rod or protrusion) same rotate same arc\$5	USPAT	OR	OFF	2008/09/04 17:04
S17	127	seal same guide same (post or rod or protrusion) same rotate	USPAT	OR	OFF	2008/09/04 17:04
S16	0	seal same spiral same guide same (post or rod or protrusion) same rotate	USPAT	OR	OFF	2008/09/04 17:04

S15	0	(seal same spiral same guide same (post or rod or protrusion) same rotate)	USPAT	OR	OFF	2008/09/04 17:04
S21	62	S20 and aperture and seal	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/04 17:06
S20	261	("0729423" "2416391" "2699826" "2797826" "2797837" "2844351" "3086797" "3197173" "3206117" "3304934" "3329390" "3397699" "3438607" "3528425" "3599637" "3766916" "3811440" "3856010" "3875938" "3902517" "3920215" "3970089" "3977400" "3994287" "4000739" "4016879" "4033349" "4063555" "4084606" "4096860" "4143853" "4149535" "4177814" "4197848" "4198958" "4228802" "4231400" "4231411" "4235232" "4239042" "4240411" "4243034" "4311137" "4313529" "4324239" "4367905" "4378013" "4387879" "4424833" "4430081" "4436519" "4463839" "4465470" "4473369" "4475548" "4496348" "4511359" "4521938" "4527676" "4573979" "4580573" "4608965" "4610665" "4610674" "4626245" "4627838" "4634421" "4634432" "4652255"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/04 17:06

"4653477"	
"4654030"	"4655752"
"4673393"	
"4715360"	"4721133"
"4723550"	
"4769017"	"4786028"
"4795426"	
"4798594"	"4817631"
"4839471"	
"4842591"	"4869717"
"4874377"	
"4891044"	"4895346"
"4895565"	
"4897079"	"4909798"
"4917668"	
"4920953"	"4929235"
"4943280"	
"4944732"	"4960259"
"4960412"	
"4978341"	"4983160"
"5000745"	
"5009391"	"5009643"
"5041095"	
"5053014"	"5053016"
"5098064"	
"5098393"	"5104389"
"5106054"	
"5122122"	"5127626"
"5127909"	
"5167636"	"5176653"
"5180365"	
"5199948"	"5203773"
"5226879"	
"5234410"	"5242389"
"5242412"	
"5250065"	"5257973"
"5273751"	
"5286256").PN. OR	
("5304143"	
"5306237"	"5328041"
"5338313"	
"5350360"	"5354280"
"5357978"	
"5385552"	"5391153"
"5395342"	
"5397335"	"5403264"
"5407433"	
"5429609"	"5441486"
"5474544"	
"5487725"	"5545179"
"5634911"	
"5683378"	"5752970"
"5797888"	
"5797897"	"5817043"

		"5820600" "5823995" "5891056" "5919004" "5921971" "5957898" "5971181" "5997515" "6039718" "6200262" "6254529" "6569120" "RE36702").PN. OR ("4540411" "4596320" "6045535" "6569120" "6663598" "6858137" "6981966").URPN.				
S19	7	(US-6045535-\$ or US- 6663598-\$ or US- 6981966-\$ or US- 6569120-\$ or US- 6858137-\$ or US- 4540411-\$ or US- 4596320-\$).did.	USPAT	OR	OFF	2008/09/04 17:06
S22	37	("3528425" "3902517" "4000739" "4033349" "4084606" "4096860" "4235232" "4239042" "4465470" "4573979" "4652255" "4721133" "4795426" "4891044" "4897079" "4944732" "4983160" "5234410" "5242412" "5250065" "5257973" "5273751" "5286256" "5306237" "5350360" "5403264" "5429609" "5487725" "5545179" "5634911" "5683378" "5752970" "5797888").PN. OR ("6045535").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/04 17:09

S23	30	("4623348" "4675006" "4781703" "4838877" "4921479" "5176662" "5250033" "5295657" "5304183" "5322516" "5364367" "5366446" "5366478" "5370625" "5375588" "5441487" "5490843").PN. OR ("5683378").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/04 17:11
S25	90	(valve same (opening or aperture)) same (along (guide or track)) same (post or detent or protrusion)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/04 17:14
S24	1	(valve same (circular opening)) same (along (guide or track)) same (post or detent or protrusion)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/04 17:14
S26	12	(valve same (opening or aperture)) same (along (guide or track)) same (post or detent or protrusion) same (spiral or curved)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/04 17:15
S27	78	S25 not S26	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/04 17:16
S28	3	"5820600".pn. or "5603702".pn. or "3920215".pn.	USPAT	OR	OFF	2008/09/05 12:50
S29	191	("0278008" "2797837" "3118646" "3197173" "3436054" "3473779" "3685786" "3741517" "3791617" "3875938" "3970089" "3977400" "4000739" "4177814" "4211214" "4233982" "4240411" "4243034" "4338934" "4379458" "4424833" "4430081" "4512766" "4531937"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 12:51

"4535773"		"4538594"		"4569502"
"4580573"		"4609300"		"4610665"
"4610674"		"4611785"		"4626245"
"4629450"		"4634432"		"4649904"
"4654030"		"4655752"		"4673393"
"4683916"		"4759751"		"4798594"
"4809679"		"4813938"		"4842591"
"4857062"		"4874364"		"4874377"
"4895346"		"4909798"		"4917668"
"4920953"		"4929235"		"4935010"
"4960259"		"4960412"		"4966588"
"4978341"		"5000745"		"5006114"
"5009391"		"5048508"		"5053014"
"5092857"		"5098393"		"5112321"
"5127626"		"5156596"		"5161773"
"5167636"		"5180373"		"5197955"
"5205831"		"5209219"		"5209737"
"5211633"		"5211634"		"5221264"
"5242412"		"5256150"		"5300033"
"5304143"		"5308336"		"5312362"
"5312363"		"5334164"		"5338313"
"5342315"		"5350364"		"5354280"
"5385552"		"5385553"		"5389081"
"5391153"		"5397335"		"5407433"
"5411483"		"5431676"		"5460616"
"5492304"		"5496280"		"5512053"
"5607397"		"5657963"		

.PN. OR

		("3920215" "5603702" "5820600").URPN.				
S30	96	("0729423" "2797837" "3086797" "3197173" "3438607" "3766916" "3788318" "3811440" "3856010" "3875938" "3920215" "3970089" "3977400" "3994287" "4000739" "4149535" "4177814" "4202527" "4231400" "4240411" "4243034" "4324239" "4378013" "4424833" "4430081" "4436519" "4473369" "4475548" "4496348" "4580573" "4610665" "4610674" "4626245" "4634421" "4654030" "4655752" "4673393" "4723550" "4786028" "4798594" "4817631" "4839471" "4842591" "4869717" "4874377" "4884091" "4895565" "4909798" "4917668" "4929235" "4943280" "4960259" "4960412" "4978341" "5000745" "5009391" "5009643" "5041095" "5053014" "5053016" "5104383" "5104389" "5127626" "5127909" "5197955" "5211370" "5211633" "5221264").PN. OR ("5389081").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 12:57
S31	7898	(aperture with blades)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:47

S32	26	S31 same guide same detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:48
S33	0	(circular with blades) same guide same detent same lever	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:50
S36	12	S34 not S32	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:51
S35	26	S32 not S34	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:51
S34	12	(circular with blades) same guide same detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:51
S37	27	(circular with blades) same guide same actuator	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:52
S39	8	blades same valve same guide same actuator same detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:54
S38	205	blades same valve same guide same actuator	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:54
S41	4	stabilizer same valve same actuator same detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:56
S40	3	stabilizer same guide same actuator same detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:56
S43	5	actuator same detent same (click near2 stop)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:58
S42	0	valve same actuator same detent same (click near2 stop)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:58
S44	12	actuator same detent and (click near2 stop)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 13:59
S47	28	actuator same detent and click and blade\$2 and (shaft or obturator or cannula)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:07
S46	43	actuator same detent and click and blade\$2	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:07

S45	263	actuator same detent and click	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:07
S48	30	("0169917" "3878548" "4283132" "T896020").PN. OR ("4457604").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:10
S50	76	actuator same (blade\$2 near2 circular or radial) same (detent or pin or post) same (along near3 (guide or track))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:12
S49	355	actuator same opening same (detent or pin or post) same (along near3 (guide or track))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:12
S52	73	S50 and (twist\$4 or turn\$4 or rotat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:13
S51	73	S50 and (twist or turn or rotat\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:13
S54	13	actuator same (blade\$2 same (circular or radial)) same (detent or pin or post) same (along near3 (guide or track))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:16
S53	2	actuator same (blade\$2 near2 (circular or radial)) same (detent or pin or post) same (along near3 (guide or track))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:16
S55	1	"5211370".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:35
S56	41	("1986484" "3329390" "3366363" "4292969" "4540411").PN. OR ("5211370").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:36
S57	41	("1986484" "3329390" "3366363" "4292969" "4540411").PN. OR ("5211370").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:54

S60	0	TROCAR SLEEVE WITH VARIABLE SEAL OPENING	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 14:55
S59	316	storz.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:55
S58	7	storz-michael.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 14:55
S61	8	variable same seal same opening same detent same actuator	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 14:56
S62	3	"3920215".pn. or "5125915".pn. or "5820600".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 14:58
S63	12	(circular near3 valve) same detent same (guide or rail)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 14:59
S64	30	DITTRICH-Horst.in.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:01
S65	13970	valve and (cam same (slot\$2 or guide\$2 or track)) and rotat\$4 and circular and actuat\$3	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:05
S66	8733	(valve same (cam same (slot\$2 or guide \$2 or track))) and rotat \$4 and circular and actuat\$3	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:06
S69	56	(S66 or S67 or S68) and ("604".clas. or "606".clas.)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:07
S68	1892	(valve same (cam with (slot\$2 or guide\$2 or track))) and (rotat\$4 same circular same actuat\$3)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:07
S67	4035	(valve same (cam same (slot\$2 or guide \$2 or track))) and (rotat \$4 same circular same actuat\$3)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:07
S70	3	"20040148034"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:12

S71	1	"3787022".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/05 15:14
S72	17	("0998400" "2307273" "2614789" "3101736").PN. OR ("3787022").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:20
S73	1564	251/297.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:33
S77	7	S76 and blades	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:34
S76	315	S73 and (cam or track or guide)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:34
S75	0	S73 and obturator	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:34
S78	9	S76 and spiral	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:35
S81	3	S79 and jaws	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:37
S80	0	S79 and jaws	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:37
S79	204	S76 and (detent or lock)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:37
S83	42	S76 and (detent or lock) and actuator	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:39
S82	209	S76 and (detent or lock or stopper)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:39
S85	2	S84 and detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:42
S84	361	251/126.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/05 15:42

S87	60	(valve same (opening or aperture)) same (along (guide or track or channel)) same (post or detent or protrusion or pin or (ball bearing)) same actuator	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:51
S86	577	(valve same (opening or aperture)) same (along (guide or track or channel)) same (post or detent or protrusion or pin or (ball bearing))	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:51
S89	18	(opening or aperture) same (along (guide or track or channel)) same (post or detent or protrusion or pin or (ball bearing)) same actuator same (jaws or wings)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:53
S88	2	(seal same (opening or aperture)) same (along (guide or track or channel)) same (post or detent or protrusion or pin or (ball bearing)) same actuator same (jaws or wings)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:53
S92	970	"251".clas. and ((channel or slot) with (pin or detent or ball-bearing or peg) and radial and movement)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:54
S91	3842	"251".clas. and ((channel or slot) with (pin or detent or ball-bearing))	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:54
S90	8777	"251".clas. and (channel or slot) and (pin or detent or ball-bearing)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:54
S95	3	"251".clas. and ((channel or slot) with (pin or detent or ball-bearing or peg) and radial and click)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:55

S94	0	"251".clas. and ((channel or slot) with (pin or detent or ball-bearing or peg) and radial and (click\$stop))	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:55
S93	0	"251".clas. and ((channel or slot) with (pin or detent or ball-bearing or peg) and radial and (click-stop))	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:55
S96	11	("2100816" "2374679" "3917218" "4842010" "5102096").PN. OR ("5620019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 09:56
S97	7	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and click)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:58
S101	131	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and rotatable and base and seal)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:59
S100	193	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and rotatable and base)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:59
S99	640	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and rotatable)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:59
S98	1400	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 09:59

S107	18	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and spiral)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S106	0	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and iris)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S105	0	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and iris)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S104	0	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and (circular or spiral) and iris)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S103	146	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and (circular or spiral))	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S102	257	"251".clas. and ((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:02
S109	1467	((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and spiral)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:07
S108	5	("3105518").URPN.	USPAT	OR	OFF	2008/09/08 10:07

S112	87	((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and spiral) and iris	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:08
S111	21	((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and spiral) and "604".clas.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:08
S110	21	((channel or slot or cam) with (pin or detent or ball-bearing or peg) and radial and apertures and spiral) and "604".clas.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:08
S116	181	((channel or cam) with (ball-bearing or peg) and apertures) and rotatable	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:10
S115	463	((channel or cam) with (ball-bearing or peg) and apertures)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:10
S114	2	((channel or cam) with (ball-bearing or peg) and apertures) and iris	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:10
S113	1	((channel or cam) with (ball-bearing or peg) and apertures and spiral) and iris	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:10
S118	17	((channel or cam) with (ball-bearing or peg) same recess and apertures) and rotatable	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:11
S117	87	((channel or cam) with (ball-bearing or peg) and apertures) and rotatable and recess	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 10:11
S121	1	rotatable same detent same valve same actual \$3 same iris	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:12
S120	990	rotatable same detent same valve same actual \$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:12

S119	11	("2100816" "2374679" "3917218" "4842010" "5102096").FN. OR ("5620019").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:12
S122	33	rotatable same detent same valve same actuat \$3 same (wings or jaws)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:13
S123	24	(US-20060264983-\$). did. or (US-6045535-\$ or US-6663598-\$ or US- 6981966-\$ or US- 6569120-\$ or US- 6858137-\$ or US- 4540411-\$ or US- 4596320-\$ or US- 5989223-\$ or US- 4367905-\$ or US- 5683378-\$ or US- 5366446-\$ or US- 5389081-\$ or US- 4230403-\$ or US- 4595268-\$ or US- 5211370-\$ or US- 5125915-\$ or US- 3787022-\$ or US- 2614789-\$ or US- 5033519-\$ or US- 5551477-\$ or US- 4739901-\$ or US- 4457604-\$).did. or (US- 3105518-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:32
S124	5	S123 and (detent or click)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:33
S127	42	channel and detent and apertures and valve and rotatable and actuator and (obturator or laparoscopic)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:34
S126	379	channel and detent and apertures and valve and rotatable and actuator	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:34
S125	1805	channel and detent and apertures and valve	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:34

S128	11	channel and detent and apertures and valve and rotatable and actuator and (obstructor or laparoscopic)	USPAT; USOCR	OR	OFF	2008/09/08 10:35
S130	22	(cam with (detent or click)) and apertures and valve and (rotatable same actuator)	USPAT; USOCR	OR	OFF	2008/09/08 10:37
S129	5	(channel with (detent or click)) and apertures and valve and (rotatable same actuator)	USPAT; USOCR	OR	OFF	2008/09/08 10:37
S131	34	("2589650" "2810435" "3097762" "4262467" "4681677" "4698146" "4708264" "4769135" "4903731").PN. OR ("5050772").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:53
S132	16	("0169917" "3878548" "4283132" "4299465" "4457604" "T896020").PN. OR ("4595268").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:54
S133	17	("0998400" "2307273" "2614789" "3101736").PN. OR ("3787022").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 10:55
S134	5	("3101736").URPN.	USPAT	OR	OFF	2008/09/08 11:04
S135	11	("2830617" "2839267" "3101736" "3159179" "3329396").PN. OR ("4513948").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 11:07
S136	7	("3159179").URPN.	USPAT	OR	OFF	2008/09/08 11:08
S139	7	S138 and detent	USPAT	OR	OFF	2008/09/08 11:09
S138	466	251/212.ccls.	USPAT	OR	OFF	2008/09/08 11:09
S137	5	("3329396").URPN.	USPAT	OR	OFF	2008/09/08 11:09

S142	23	S138 and cam	USPAT	OR	OFF	2008/09/08 11:10
S141	0	S138 and (click)	USPAT	OR	OFF	2008/09/08 11:10
S140	0	S138 and (click near2 stop)	USPAT	OR	OFF	2008/09/08 11:10
S144	65	(cam and pin and detent) same valve same actuator	USPAT	OR	OFF	2008/09/08 11:39
S143	481	(cam and pin and detent) same valve	USPAT	OR	OFF	2008/09/08 11:39
S146	4	S145 and detent	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 11:40
S145	96	("0729423" "2797837" "3086797" "3197173" "3438607" "3766916" "3788318" "3811440" "3856010" "3875938" "3920215" "3970089" "3977400" "3994287" "4000739" "4149535" "4177814" "4202527" "4231400" "4240411" "4243034" "4324239" "4378013" "4424833" "4430081" "4436519" "4473369" "4475548" "4496348" "4580573" "4610665" "4610674" "4626245" "4634421" "4654030" "4655752" "4673393" "4723550" "4786028" "4798594" "4817631" "4839471" "4842591" "4869717" "4874377" "4884091" "4895565" "4909798" "4917668" "4929235" "4943280" "4960259" "4960412" "4978341" "5000745"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 11:40

		"5009391" "5009643" "5041095" "5053014" "5053016" "5104383" "5104389" "5127626" "5127909" "5197955" "5211370" "5211633" "5221264").PN. OR ("5389081").URPN.				
S150	54	S148 not S147	USPAT	OR	OFF	2008/09/08 11:44
S149	91	S148 anot S147	USPAT	OR	OFF	2008/09/08 11:44
S148	64	(cam and pin and detent) same valve same lock\$3	USPAT	OR	OFF	2008/09/08 11:44
S147	10	(cam and pin and detent) same valve same actuator same lock\$3	USPAT	OR	OFF	2008/09/08 11:44
S154	1	S153 and "604".clas.	USPAT	OR	OFF	2008/09/08 11:47
S153	94	((cam or slot or channel or guide or rail) with (pin or post or protrusion or detent) with lock\$3) same valve same actuator	USPAT	OR	OFF	2008/09/08 11:47
S152	159	((cam or slot or channel or guide or rail) with (pin or post or protrusion or detent) same lock\$3) same valve same actuator	USPAT	OR	OFF	2008/09/08 11:47
S151	159	((cam or slot or channel or guide or rail) with (pin or post or protrusion or detent)) same valve same actuator same lock\$3	USPAT	OR	OFF	2008/09/08 11:47
S155	11	S153 and "251".clas.	USPAT	OR	OFF	2008/09/08 11:48

S156	5	((cam or slot or channel or guide or rail) near3 (pin or post or protrusion) with lock \$3) same valve same actuator same detent	USPAT	OR	OFF	2008/09/08 11:51
S160	4136	((cam or slot or channel or guide) near2 pin) with locking	USPAT	OR	OFF	2008/09/08 11:53
S159	6066	((cam or slot or channel or guide) near3 pin) with locking	USPAT	OR	OFF	2008/09/08 11:53
S158	9858	((cam or slot or channel or guide) near3 pin) same locking	USPAT	OR	OFF	2008/09/08 11:53
S157	0	((cam or slot or channel or guide) near3 pin) same (aperture near2 blades) same locking	USPAT	OR	OFF	2008/09/08 11:53
S161	61	((cam or slot or channel or guide) near2 pin) with locking with valve	USPAT	OR	OFF	2008/09/08 11:54
S163	3	S162 and aperture	USPAT	OR	OFF	2008/09/08 11:55
S162	185	251/253.ccls.	USPAT	OR	OFF	2008/09/08 11:55
S164	1	"3,787,022".pn.	USPAT	OR	OFF	2008/09/08 12:10
S166	7	S165 and detent	USPAT	OR	OFF	2008/09/08 12:47
S165	466	251/212.ccls.	USPAT	OR	OFF	2008/09/08 12:47
S167	76	("0979819" "1219222" "1246033" "1262443" "1268947" "1289490" "1312531" "1313386" "1360869" "1462253" "1463129" "1689066" "1859009" "1892455" "1978314" "2199085" "2299360" "2340936" "2499409" "2685891" "2705372")	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 12:49

		"2811179" "2918931" "2918932" "3189039" "3347263" "3438316" "3495635" "3563263" "3610273" "3661175" "3787022" "3791407" "3794077" "3895402" "4175296" "4266582" "4396034" "4407325" "4469116" "4630655" "4703874").PN. OR ("5033519").URPN.				
S168	31	S165 and locking	USPAT	OR	OFF	2008/09/08 12:50
S170	7	S169 and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:24
S169	27	(US-20060264983-\$). did. or (US-6045535-\$ or US-6663598-\$ or US- 6981966-\$ or US- 6569120-\$ or US- 6858137-\$ or US- 4540411-\$ or US- 4596320-\$ or US- 5989223-\$ or US- 4367905-\$ or US- 5683378-\$ or US- 5366446-\$ or US- 5389081-\$ or US- 4230403-\$ or US- 5211370-\$ or US- 5125915-\$ or US- 3787022-\$ or US- 2614789-\$ or US- 5033519-\$ or US- 5551477-\$ or US- 4739901-\$ or US- 4457604-\$ or US- 6303023-\$ or US- 4513948-\$ or US- 3159179-\$).did. or (US- 3105518-\$ or US- 3329396-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:24
S173	861	jaws same diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:28

S172	6007	jaws same lip	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:28
S174	13	diaphragm near2 (in between) near2 (jaws)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:29
S179	0	S175 and (flexible diaphragm)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:43
S178	0	S175 and (resilient diaphragm)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:43
S177	0	S175 and resilient diaphragm	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:43
S176	24	S175 and diaphragm	US-PGPUB; USPAT; USOCR	OR	OFF	2008/09/08 15:43
S175	466	251/212.ccls.	USPAT	OR	OFF	2008/09/08 15:43
S182	3	S181 and dilated	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:46
S181	298	S180 and stretched	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:46
S180	3366	(resilient diaphragm)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:46
S183	1	"5125915".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:49
S184	1	"5820600".pn.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2008/09/08 15:54

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